

Bark Out ÷ Loud ÷

GLOBAL NEWS

Deadly feline cancer sees new potential treatment¹

VPN, September 30th 2021



Researchers are using nanobody-targeted photodynamic therapy to tackle oral squamous cell carcinoma in cats. The method utilizes light, along with a tumor-cell targeted, light-sensitive chemical to precisely trigger cancer cell death. Oral squamous cell carcinoma is the most common oral cancer in cats, accounting for roughly eight to 10 percent of all

cancers diagnosed, Morris Animal Foundation says. The cancer spreads locally and imbeds deeply into the oral tissue, making complete surgical removal rare. Once diagnosed, the average survival time for feline patients is 3 months. While conventional photodynamic therapy uses light and a light-sensitive chemical to treat cancer, nanobody-targeted photodynamic therapy uses tumor-cell targeted antibody fragments coupled to the chemical, offering a more precise treatment.

New Report Shows Hemp Derivatives Market Expanding Due to Global Increase in Cultivation and Consumer Awareness²

September 2021



A new market report showed how much growth is projected for hemp derivatives in the next seven years. The report, released by leading market research firm The Insight Partners, found that the hemp derivative market is expected to be just under \$21 billion by 2028. For comparison, the same market was estimated at \$4.5 billion in 2019. The market for hemp CBD oil grew at the highest rate of all hemp derivative

markets in 2021. Two of the contributing growth factors included an increase in the worldwide cultivation of hemp and an increase in awareness about health benefits of hemp derivatives. The global COVID-19 pandemic also played a role, as researchers found that consumers are increasingly focused on health and wellness.

STUDY

The Effect of Hemp (Cannabis sativa L.) Seeds & Hemp Seed Oil on Vascular Dysfunction in Obese Male Zucker Rats

Nutrients, July 2021

Seeds of industrial hemp (Cannabis sativa L.) contain a large amount of protein (26.3%), dietary fiber (27.5%), and fatty acids (33.2%), including linoleic, α -linolenic, and some amount of γ -linolenic acid. In our study, obese male Zucker rats at 8 weeks of age were supplemented for a further 4 weeks with either ground hemp seeds (12% diet) or lipid fractions in the form of hemp seed oil (4% diet). Hemp seed oil decreased blood plasma HDL-cholesterol, triglycerides, and calculated atherogenic parameters.

Meanwhile, hemp seeds decreased HDL-cholesterol and total cholesterol. The plasma antioxidant capacity of water-soluble compounds was decreased by the seeds, which in turn was associated with a decrease in plasma uric acid. Dietary hemp seeds also decreased plasma urea, while the oil decreased the plasma total protein. Hemp seeds and the oil decreased lipid peroxidation in the blood plasma and in the heart, improved contraction to noradrenaline, and up-regulated the sensitivity of potassium channels dependent on ATP and Ca^{2+} . Dietary supplementation with ground hemp seeds as well as hemp seed oil was hence found to be beneficial.

VIVALDIS CORNER

We are excited to announce the launch of our newly launched co-branded product packs of Bark Out Loud with Virat Kohli Foundation. Bark Out Loud range aims at empowering pet parents, by giving them handy solutions for their everyday woes. Through extensive research, our team has formulated an alternative and effective treatment approach. Bark Out Loud range has been uniquely designed because our loved ones deserve nothing but the best.



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